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TITLE	CABRILLO TEST GRADER
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Mr. A. D. Gold	6666 Chestnut St., El Paso, Tex.
Mr. Z. E. Iron	6767 Poplar St., El Paso, Tex.
Mr. Y. F. Lead	6868 Magnolia St., El Paso, Tex.
Mr. X. G. Zinc	6969 Sycamore St., El Paso, Tex.
Mr. W. H. Nickel	7070 Juniper St., El Paso, Tex.
Mr. V. I. Copper	7171 Willow St., El Paso, Tex.
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CABRILLO TEST GRADER

DECUS PROGRAM LIBRARY WRITE-UP

DECUS NO. 8- 654

WRITTEN BY: DON SINGER
MATHEMATICS INSTRUCTOR
FOREST GROVE UNION HIGH SCHOOL

SUBMITTED BY: CABRILLO COMPUTER CENTER
4350 CONSTELLATION ROAD
LOMPOC, CA 93436

ABSTRACT

CABRILLO TEST GRADER IS AN ASSEMBLY LANGUAGE VERSION OF DEC'S EDU-TEST PROGRAM. EDU-TEST PRINTS OUT TOO MUCH, HANDLES TOO FEW STUDENTS AND/OR QUESTIONS, AND SLOPPY CARD MARKING FOULS IT UP COMPLETELY. THIS PROGRAM CORRECTS EACH TEST, PRODUCES A STUDENT PRINTOUT WITH EITHER RIGHT OR WRONG QUESTIONS LISTED (OR SUPPRESSES STUDENT PRINTOUT), PRODUCES A CLASS LIST SHOWING THE NUMBER OF QUESTIONS EACH STUDENT GOT RIGHT, HIS PERCENTAGE SCORE, AND AN ITEM ANALYSIS SHOWING HOW MANY TIMES EACH QUESTION WAS MISSED AND THE CORRECT ANSWER AS READ FROM THE KEY CARD. IT USES REGULAR EDU-TEST CARDS AND IS FAST AND VIRTUALLY FOOLPROOF.

LOADING INSTRUCTIONS

LOAD WITH THE BIN LOADER, STARTING ADDRESS 0200, NO SWITCH OPTIONS.

LIMITS

999 STUDENTS, 100 QUESTIONS PER STUDENT

FORMAT

USES STANDARD DEC EDU-TEST CARDS

KEY CARD

COLUMNS 1&2	TEST NUMBER
COLUMNS 3	PART NUMBER
COLUMNS 6&7	COURSE NUMBER
REMAINING	ANSWERS (CAN BE "A" THRU "E" OR ANY COMBINATION)

END OF TEST INDICATOR IS IN QUESTION # BOX FOLLOWING LAST QUESTION. IT MUST BE ON A SUBSEQUENT PART # CARD IF THERE ARE EXACTLY 25, 50, OR 75 QUESTIONS. NOT NECESSARY FOR EXACTLY 100 QUESTIONS.

STUDENT CARD

COLUMN	1	UNUSED
COLUMN	2	HUNDREDS DIGIT OF STUDENT NUMBER
COLUMN	3	PART NUMBER
COLUMNS 6&7		TENS AND ONES DIGIT OF STUDENT #
REMAINING		STUDENT ANSWERS (MUST MATCH KEY CARD EXACTLY TO BE COUNTED RIGHT.)

NO END OF TEST MARK IS NECESSARY.

END OF DECK

ANY BLANK EDU-30 CARD (NON DATA CARD)

OPTIONS

COMPUTER'S QUESTION

RESPONSES

TYPE WRONG ANS?

Y STARTS GRADING WITH WRONG ANSWERS TYPED ON STUDENT PRINTOUT. ANY OTHER CHARACTER CAUSES IT TO ASK THE NEXT QUESTION.

TYPE RIGHT ANS?

Y STARTS GRADING WITH RIGHT ANSWERS TYPED ON STUDENT PRINTOUT. ANY OTHER CHARACTER CAUSES IT TO GO TO NEXT QUESTION.

NO STUDENT TYPEOUT?

Y SUPPRESSES ALL STUDENT PRINTOUT. ANY OTHER CHARACTER RESTARTS QUESTIONS.

KEY CARDS IN WRONG ORDER?

CORRECT ORDER AND TYPE ANY CHARACTER OR TYPE CONTROL/B TO RESTART TEST GRADER.

STUDENT CARDS IN WRONG ORDER?

CORRECT ORDER AND TYPE ANY CHARACTER OR TYPE CONTROL/R TO RESTART STUDENT SECTION WITH PART 1 OR CONTROL/B TO RESTART TEST GRADER FROM BEGINNING.

CARD READER READY?

TYPE ANY CHARACTER TO READ CARD OR USE CONTROL OPTIONS DESCRIBED ABOVE.

RETURN TO BASIC?

TYPE Y TO RETURN. ANY OTHER CHARACTER RESTARTS TEST GRADER. (WORKS WITH NON-POWER-FAIL-RESTART CARD DEC BASIC USING DF32 DISK. REPLACE ROUTINE WITH YOUR BOOTSTRAP IF USING DIFFERENT SYSTEM.)

FEATURES

MESSAGE

ACTION TAKEN

NO STUDENT #

PRINTS MESSAGE, PAUSES, AWAITS CONTROL OPTIONS,

PERFORMS CORRECTLY IF CORRECTIONS MADE TO CARDS, IF CORRECTION NOT MADE AND NON-CONTROL CHARACTER IS TYPED IT GRADES TEST ANYWAY, DOES NOTHING WITH SCORE, AND ADDS TO ITEM ANALYSIS.

DUP STUDENT #

PRINTS MESSAGE, PAUSES, AWAITS CONTROL OPTIONS OR CARD CORRECTION AS ABOVE. IF CORRECTION NOT MADE AND NON-CONTROL CHARACTER IS TYPED IT GRADES TEST ANYWAY, SCORE FOR THE LAST STUDENT'S TEST IS READ AND ENTERED IN TABLE OVERWRITING THE PREVIOUS STUDENT'S, AND ADDS TO ITEM ANALYSIS.

APOLOGIES

NO COMMENTS ARE INCLUDED IN THE LISTING. WITH A PAPER TAPE SYSTEM, COMMENTS ARE A LUXURY WE CANNOT AFFORD. FEEL FREE TO WRITE THE COMPUTER CENTER IF YOU HAVE ANY QUESTIONS.

SAMPLE RUN

CABRILLO TEST GRADER

TYPE WRONG ANS?Y

CARD READER READY?

Y

T# 10 C# 1 S# 101

INCORRECT

5 7 12 14 15

CORRECT 10
OUT OF 15
66%

T# 10 C# 1 S# 202

INCORRECT

2 14

CORRECT 13
OUT OF 15
86%

T# 10 C# 1 S# 322

INCORRECT

CORRECT 15
OUT OF 15
100%

T# 10 C# 1

STU# #CORRECT

101 10 66%

202 13 86%
322 15 100%

Q#	#M	KEY
1	0	1
2	1	2
3	0	3
4	0	4
5	1	5
6	0	1
7	1	2
8	0	3
9	0	4
10	0	5
11	0	1
12	1	2
13	0	3
14	2	4
15	1	5

TEST GRADING FINISHED

RETURN TO BASIC?

N

CABRILLO TEST GRADER

TYPE WRONG ANS?N

TYPE RIGHT ANS?Y

T# 10 C# 1 S# 101

CORRECT

1	2	3	4	6	8	9	10	11	13
# CORRECT	10								
OUT OF	15								
	66%								

CARD READER READY?

Y

T# 10 C# 1 S# 202

CORRECT

1 3 4 5 6 7 8 9 10 11 12 13 15

CORRECT 13
OUT OF 15
86%

T# 10 C# 1 S# 322

CORRECT

1 2 3 4 5 6 7 8 9 10 11 12 13 14
15

CORRECT 15
OUT OF 15
100%

T# 10 C# 1

STU# #CORRECT

101 10 66%
202 13 86%
322 15 100%

Q# #M KEY

1 0 1
2 1 2
3 0 3
4 0 4
5 1 5
6 0 1

7	1	2
8	0	3
9	0	4
10	0	5
11	0	1
12	1	2
13	0	3
14	2	4
15	1	5

TEST GRADING FINISHED

RETURN TO BASIC?

N

CABRILLO TEST GRADER

TYPE WRONG ANS?N

TYPE RIGHT ANS?N

NO STUDENT TYPEOUT?N

TYPE WRONG ANS?N

TYPE RIGHT ANS?N

NO STUDENT TYPEOUT?Y

NO STUDENT #

T# 10 C# 1

STU# #CORRECT

202	13	86%
212	15	100%

Q#	#M	KEY
1	0	1
2	1	2

3	0	3
4	0	4
5	1	5
6	0	1
7	1	2
8	0	3
9	0	4
10	0	5
11	0	1
12	1	2
13	0	3
14	2	4
15	1	5

TEST GRADING FINISHED

RETURN TO BASIC?

Y

READY

/TEST GRADER BY DON SINGER

AUTO 10=10

AUTO 11=11

AUTO 14=14

AUTO 15=15

BUFF PT=16

*20

0020	0000	ANSBUF, 0
0021	1670	CRDRD, CARD
0022	0000	CRDBUF, 0
0023	0000	PARTX, 0
0024	0000	PART, 0
0025	0000	STABUF, 0
0026	0000	TITEMS, 0
0027	0000	ADDRES, 0
0030	0000	TSTNO, 0
0031	0000	TEMP1, 0
0032	0000	TEMP2, 0
0033	0000	CLASN, 0
0034	2530	PERI, PER
0035	0000	BUFST, 0
0036	0477	ANSKY, ANS
0037	0400	STANS, STU
0040	0600	CKANSW, CHKAN
0041	2000	TPRTOT, TEACH
0042	0000	ITOMPS, 0
0043	0000	NORITE, 0
0044	0000	PROBLM, 0
0045	4400	STADDB, 4400
0046	4200	ANSADD, 4200
0047	0000	J, 0
0050	0000	QBUFFR, 0
0051	0000	STUDN, 0
0052	0000	PSTNO, 0
0053	0000	ADDRE1, 0
0054	0000	QNO, 0
0055	1000	TYPX, TYPE
0056	1200	DECI, IDECI
0057	0006	NUMN6, 6
0060	7634	NUM100, -144
0061	4600	QBUFFA, 4600
0062	5000	PTSTNO, 5000
0063	0017	MASK, 17
0064	2043	ITOMPT, ITPRT
0065	4000	CRDADD, 4000
0066	4000	BUFFST, 4000
0067	0000	NO, 0
0070	0010	TMPN9, 10
0071	7773	TMPN5, 0-5
0072	0000	K, 0
0073	0000	IX, 0
0074	0000	TEMPS, 0
0075	1650	INMPAC, 1650
0076	2200	SETUPI, SETUP
0077	4002	FOUR, 4002

0100	0000	TEMP3,00
0101	6023	NUM999,6023
0102	0000	TMPSTN, 0

/CIANGE 2 DEC DIGITS TO BIN WORD

0103	0000	NUMPK, 0
0104	1031	TAD TEMP1
0105	0063	AND MASK
0106	3031	DCA TEMP1
0107	1032	TAD TEMP2
0110	0063	AND MASK
0111	7104	CLL RAL
0112	3032	DCA TEMP2
0113	1032	TAD TEMP2
0114	1031	TAD TEMP1
0115	3031	DCA TEMP1
0116	1032	TAD TEMP2
0117	7006	RTL
0120	1031	TAD TEMP1
0121	3031	DCA TEMP1
0122	1100	TAD TEMP3
0123	0063	AND MASK
0124	7104	CLL RAL
0125	3100	DCA TEMP3
0126	1100	TAD TEMP3
0127	7006	RTL
0130	1100	TAD TEMP3
0131	3100	DCA TEMP3
0132	1100	TAD TEMP3
0133	7104	CLL RAL
0134	3100	DCA TEMP3
0135	1100	TAD TEMP3
0136	7006	RTL
0137	1100	TAD TEMP3
0140	1031	TAD TEMP1
0141	3031	DCA TEMP1
0142	7200	CLA
0143	3100	DCA TEMP3
0144	1031	TAD TEMP1
0145	5503	JMP I NUMPK

/KEYBOARD RESPONSE

0146	0000	KEY, 0
0147	7200	CLA
0150	6031	KSF
0151	5150	JMP -- 1
0152	6036	KRB
0153	6046	TLS
0154	7041	CIA
0155	3170	DCA REPLY
0156	1170	TAD REPLY
0157	1171	TAD CNTRLB
0160	7450	SNA
0161	5573	JMP I BACK
0162	7200	CLA

0163	1170	TAD REPLY
0164	1172	TAD CNTRLR
0165	7450	SNA
0166	5574	JMP I BACK2
0167	5546	JMP I KEY
0170	0000	REPLY, 0
0171	0202	CNTRLB, 202
0172	0222	CNTRLR, 222
0173	0200	BACK, START
0174	0270	BACK2, N204
		/MAIN PROGRAM
		*200
0200	4455	START, JMS I TYPX
0201	1400	TITLE
0202	4476	JMS I SETUPI
0203	7201	CLA IAC
0204	3023	DCA PARTX
0205	4421	N201, JMS I CRDRD
0206	1024	TAD PART
0207	7041	CIA
0210	1023	TAD PARTX
0211	7450	SNA
0212	5223	JMP N202
0213	4455	CHK1, JMS I TYPX
0214	1443	KEYWRG
0215	4455	JMS I TYPX
0216	1513	CDRDY
0217	4146	JMS KEY
0220	7000	NOP
0221	7000	NOP
0222	5205	JMP N201
0223	7300	N202, CLA CLL
0224	1065	TAD CRDADD
0225	7001	IAC
0226	3027	DCA ADDRES
0227	1427	TAD I ADDRES
0230	3032	DCA TEMP2
0231	2027	ISZ ADDRES
0232	1427	TAD I ADDRES
0233	3031	DCA TEMP1
0234	4103	JMS NUMPK
0235	3030	DCA TSTNO
0236	1065	TAD CRDADD
0237	1057	TAD NUMN6
0240	3027	DCA ADDRES
0241	1427	TAD I ADDRES
0242	3032	DCA TEMP2
0243	2027	ISZ ADDRES
0244	1427	TAD I ADDRES
0245	3031	DCA TEMP1
0246	4103	JMS NUMPK
0247	3033	DCA CLASN
0250	1060	TAD NUM100
0251	3047	DCA J
0252	1061	TAD QBUFFA
0253	3010	DCA AUTO10
0254	3410	N203, DCA I AUTO10
0255	2047	ISZ J

0256	5254	JMP N203
0257	1101	TAD NUM999
0260	3047	DCA J
0261	1062	TAD PTSTNO
0262	3011	DCA AUTO11
0263	7040	JMPUP,CMA
0264	3411	DCA I AUTO11
0265	2047	ISZ J
0266	5263	JMP JMPUP
0267	4436	JMS I ANSKY
0270	4421	N204, JMS I CRDRD
0271	7201	N206, CLA IAC
0272	3023	DCA PARTX
0273	1023	TAD PARTX
0274	7041	CIA
0275	1024	TAD PART
0276	7450	SNA
0277	5306	JMP N205
0300	4455	CHK2, JMS I TYPX
0301	1466	STUWRG
0302	4455	JMS I TYPX
0303	1513	CDRDY
0304	4146	JMS KEY
0305	5270	JMP N204
0306	7200	N205, CLA
0307	1065	TAD CRDADD
0310	1057	TAD NUMN6
0311	3027	DCA ADDRES
0312	1427	TAD I ADDRES
0313	3032	DCA TEMP2
0314	2027	ISZ ADDRES
0315	1427	TAD I ADDRES
0316	3031	DCA TEMPI
0317	1477	TAD I FOUR
0320	3100	DCA TEMP3
0321	4103	JMS NUMPK
0322	4777	JMS I SCHEKI
0323	4437	JMS I STANS
0324	4440	JMS I CKANSW
0325	4421	JMS I CRDRD
0326	1065	TAD CRDADD
0327	1057	TAD NUMN6
0330	7041	CIA
0331	7040	CMA
0332	3027	DCA ADDRES
0333	1427	TAD I ADDRES
0334	7440	SZA
0335	5271	JMP N206
0336	4441	JMS I TPRTOT
0337	4464	JMS I ITOMPT
0340	4455	JMS I TYPX
0341	1421	ENDTST
0342	4455	OUT, JMS I TYPX
0343	1533	RBASIC
0344	6031	KSF
0345	5344	JMP --1

0346	6036	KRB
0347	6046	TLS
0350	7041	CIA
0351	1376	TAD YASCII
0352	7450	SNA
0353	5355	JMP .+2
0354	5200	JMP START
0355	7200	CLA
0356	1374	TAD B1
0357	3771	DCA I A7750
0360	1374	TAD B1
0361	3772	DCA I A7751
0362	1375	TAD B2
0363	3773	DCA I A7770
0364	6603	6603;
0365	6622	6622
0366	5365	JMP .-1
0367	5770	JMP I A7600
0370	7600	A7600, 7600
0371	7750	A7750, 7750
0372	7751	A7751, 7751
0373	7770	A7770, 7770
0374	7577	B1, 7577
0375	0000	B2, 0
0376	0331	YASCII, 331
0377	1603	SCHEK1, SCHEK
		/STU ANS PROC ROUTINE
		*400
0400	0000	STU, 0
0401	7200	CLA
0402	3067	DCA NO
0403	1045	TAD STADDB
0404	3010	DCA AUTO10
0405	7001	IAC
0406	3023	DCA PARTX
0407	4242	N403, JMS SRTCD
0410	7200	CLA
0411	1070	TAD TMPN9
0412	1065	TAD CRDADD
0413	3011	DCA AUTO11
0414	1071	TAD TMPN5
0415	3072	DCA K
0416	1071	N402, TAD TMPN5
0417	3073	DCA IX
0420	4267	N401, JMS ENDSTS
0421	7200	CLA
0422	1411	TAD I AUTO11
0423	3410	DCA I AUTO10
0424	2067	ISZ NO
0425	2073	ISZ IX
0426	5220	JMP N401
0427	2011	ISZ AUTO11
0430	2072	ISZ K
0431	5216	JMP N402
0432	7200	CLA
0433	4267	JMS ENDSTS
0434	2023	ISZ PARTX

0435	7000	NOP;
0436	7000	NOP
0437	4421	N405, JMS I CRDRD
0440	5207	JMP N403
0441	5600	N404, JMP I STU
0442	0000	SRTCD, 0
0443	1051	TAD STUDN
0444	7041	CIA
0445	1102	TAD TMPSTN
0446	7450	SNA
0447	5252	JMP .+3
0450	4455	JMS I TYPX
0451	1551	STNUMW
0452	1024	TAD PART
0453	7041	CIA
0454	1023	TAD PARTX
0455	7450	SNA
0456	5642	JMP I SRTCD
0457	4455	CHK3, JMS I TYPX
0460	1466	STUWRG
0461	4455	JMS I TYPX
0462	1513	CDRDY
0463	4146	JMS KEY
0464	7000	NOP;
0465	7000	NOP
0466	5237	JMP N405
0467	0000	ENDSTS, 0
0470	7200	CLA
0471	1026	TAD TITEMS
0472	7041	CIA
0473	1067	TAD NO
0474	7440	SZA
0475	5667	JMP I ENDSTS
0476	5241	JMP N404
0477	0000	ANS, 0
0500	7201	CLA IAC
0501	3067	DCA NO
0502	1046	TAD ANSADD
0503	3010	DCA AUTO10
0504	7001	IAC
0505	3023	DCA PARTX
0506	4347	N213, JMS RTCARD
0507	7200	CLA
0510	1070	TAD TMPN9
0511	1065	TAD CRDADD
0512	3011	DCA AUTO11
0513	1071	TAD TMPN5
0514	3072	DCA K
0515	1071	N212, TAD TMPN5
0516	3073	DCA IX
0517	4365	N211, JMS ENDTS
0520	7200	CLA
0521	1411	TAD I AUTO11
0522	3410	DCA I AUTO10
0523	2067	ISZ NO
0524	2073	ISZ IX
0525	5317	JMP N211

0526	2011	ISZ AUTO 11
0527	2072	ISZ K
0530	5315	JMP N212
0531	2023	ISZ PARTX
0532	7200	CLA
0533	1023	TAD PARTX
0534	1071	TAD TMPN5
0535	7450	SNA
0536	5341	JMP N214
0537	4421	N215, JMS I CRDRD
0540	5306	JMP N213
0541	7200	N214, CLA
0542	1067	TAD NO
0543	7041	CIA
0544	7040	CMA
0545	3026	DCA TITEMS
0546	5677	JMP I ANS
0547	0000	RTCARD, 0
0550	1024	TAD PART
0551	7041	CIA
0552	1023	TAD PARTX
0553	7450	SNA
0554	5747	JMP I RTCARD
0555	4455	JMS I TYPX
0556	1443	KEYWRG
0557	4455	JMS I TYPX
0560	1513	CDRDY
0561	4146	JMS KEY
0562	7000	NOP;
0563	7000	NOP
0564	5337	JMP N215
0565	0000	ENDTS, 0
0566	1011	TAD AUTO 11
0567	7001	IAC
0570	3074	DCA TEMPS
0571	1474	TAD I TEMPS
0572	7041	CIA
0573	7040	CMA
0574	7440	SZA
0575	5765	JMP I ENDTS
0576	5341	JMP N214
		/STUDENT PRI2TOUT
		*600
0600	0000	CHKANS, 0
0601	4455	JMS I TYPX
0602	1051	TTNUM
0603	1030	TAD TSTNO
0604	4456	JMS I DECI
0605	4455	JMS I TYPX
0606	1057	TCNUM
0607	1033	TAD CLASN
0610	4456	JMS I DECI
0611	4455	JMS I TYPX
0612	1137	TSTNUM
0613	1051	TAD STUDN
0614	4456	JMS I DECI
0615	4455	JMS I TYPX

0616	1062	TINCT
0617	4243	JMS CORRCT
0620	4455	JMS I TYPX
0621	1071	TPERCT
0622	1043	TAD NORITE
0623	4456	JMS I DECI
0624	4455	JMS I TYPX
0625	1136	TCRLF
0626	4455	JMS I TYPX
0627	1100	TOUTOF
0630	1026	TAD TITEMS
0631	4456	JMS I DECI
0632	4455	JMS I TYPX
0633	1136	TCRLF
0634	4455	JMS I TYPX
0635	0732	TSPACE
0636	4434	JMS I PERI
0637	4456	JMS I DECI
0640	4455	JMS I TYPX
0641	0740	TPER
0642	5600	JMP I CHKANS
0643	0000	CORRCT, 0
0644	7200	CLA
0645	3043	DCA NORITE
0646	3044	DCA PROBLM
0647	1045	TAD STADDB
0650	3014	DCA AUTO 14
0651	1046	TAD ANSADD
0652	3015	DCA AUTO 15
0653	1026	TAD TITEMS
0654	7041	CIA
0655	3047	DCA J
0656	1061	TAD QBUFFA
0657	3050	DCA QBUFFR
0660	1331	TAD N14
0661	3330	DCA COLCNT
0662	2050	N306, ISZ QBUFFR
0663	2044	ISZ PROBLM
0664	1415	TAD I AUTO 15
0665	7041	CIA
0666	1414	TAD I AUTO 14
0667	7440	SZA
0670	5326	JMP P
0671	5302	JMP L102
0672	2047	N308, ISZ J
0673	5262	JMP N306
0674	4316	JMS PERCNT
0675	5643	JMP I CORRCT
0676	1450	L101, TAD I QBUFFR
0677	7001	IAC
0700	3450	DCA I QBUFFR
0701	7000	L103, NOP
0702	2043	L102, ISZ NORITE
0703	7000	L104, NOP
0704	7200	N307, CLA
0705	1044	TAD PROBLM
0706	4456	JMS I DECI

0707	2330	ISZ COLCNT
0710	5315	JMP .+5
0711	4455	JMS I TYPX
0712	1136	TCRLF
0713	1331	TAD N14
0714	3330	DCA COLCNT
0715	5272	JMP N308
0716	0000	PERCNT, 0
0717	7200	CLA
0720	1062	TAD PTSTNO
0721	1051	TAD STUDN
0722	3027	DCA ADDRES
0723	1043	TAD NORITE
0724	3427	DCA I ADDRES
0725	5716	JMP I PERCNT
0726	7200	P,CLA
0727	5276	JMP L101
0730	0000	COLCNT, 0
0731	7762	N14,-16
0732	4040	TSPACE, 4040;
0733	4040	4040;
0734	4040	4040;
0735	4040	4040
0736	4040	4040;
0737	4000	4000
0740	4537	TPER, 4537;
0741	0000	0
		/MESSAGE TYPIN SUBR
		*1000
		BSW=7002
1000	0000	TYPE, 0
1001	7300	CLA CLL
1002	6046	TLS
1003	1600	TAD I TYPE
1004	3215	DCA TYPNT
1005	2200	ISZ TYPE
1006	1615	TYPX1, TAD I TYPNT
1007	4342	JMS START1
1010	4216	JMS TYPY
1011	1615	TAD I TYPNT
1012	2215	ISZ TYPNT
1013	4216	JMS TYPY
1014	5206	JMP TYPX1
1015	0000	TYPNT, 0
1016	0000	TYPY, 0
1017	0235	AND TK77
1020	7450	SNA
1021	5600	JMP I TYPE
1022	1244	TAD TKM37
1023	7440	SZA
1024	5230	JMP TYPY1
1025	1245	TAD TK215
1026	4236	JMS TLSX
1027	1246	TAD TKM125
1030	7510	TYPY1, SPA
1031	1247	TAD TK100
1032	1250	TAD TK237

1033	4236	JMS TLSX
1034	5616	JMP I TYPY
1035	0077	TK77, 77
1036	0000	TLSX, 0
1037	6041	TSF
1040	5237	JMP .-1
1041	6046	TLS
1042	7200	CLA
1043	5636	JMP I TLSX
1044	7741	TKM37, -37
1045	0215	TK215, 215
1046	7653	TKM125, -125
1047	0100	TK100, 100
1050	0237	TK237, 237
1051	3737	TTNUM, 3737
1052	5555	5555
1053	5555	5555
1054	3737	3737
1055	2443	2443
1056	4000	4000
1057	4040	TCNUM, 4040
1060	0343	0343
1061	4000	4000
1062	3737	TINCT, 3737
1063	1116	1116
1064	0317	0317
1065	2222	2222
1066	0503	0503
1067	2437	2437
1070	3700	3700
1071	3737	TPERCT, 3737
1072	4340	4340
1073	0317	0317
1074	2222	2222
1075	0503	0503
1076	2440	2440
1077	4000	4000
1100	1725	TOUTOF, 1725
1101	2440	2440
1102	1706	1706
1103	4040	4040
1104	4040	4040
1105	4000	4000
1106	3737	TLIST, 3737
1107	3723	3723
1110	2425	2425
1111	4340	4340
1112	4303	4303
1113	1722	1722
1114	2205	2205
1115	0324	0324
1116	3737	3737;
1117	0000	0
1120	3737	TQUES, 3737
1121	5555	5555
1122	5555	5555

1123	3737	3737
1124	4040	4040;
1125	4021	4021;
1126	4340	4340;
1127	4040	4040;
1130	4315	4315;
1131	4040	4040;
1132	4040	4040
1133	1305	1305;
1134	3137	3137;
1135	3700	3700
1136	3700	TCRLF, 3700
1137	4040	TSTNUM, 4040
1140	2343	2343
1141	4000	4000
1142	0000	START1, 0
1143	3031	DCA TEMP1
1144	7012	RTR
1145	3032	DCA TEMP2
1146	1031	TAD TEMP1
1147	0356	AND X7700
1150	1031	TAD TEMP1
1151	7006	RTL
1152	7006	RTL
1153	1032	TAD TEMP2
1154	7006	RTL
1155	5742	JMP I START1
1156	7700	X7700, 7700
		/PRINT # IN A AS DECIMAL NO.
		*1200
1200	0000	IDECI, 0
1201	7500	SMA
1202	5211	JMP PLUS
1203	7041	CIA
1204	3315	DCA BUF
1205	6046	TLS
1206	1316	TAD MINUS
1207	4307	JMS TYPE1
1210	5215	JMP .+5
1211	3315	PLUS, DCA BUF
1212	6046	TLS
1213	1317	TAD SPACE
1214	4307	JMS TYPE1
1215	1320	TAD M1
1216	3321	DCA SW1
1217	1323	TAD K1750
1220	3324	DCA ADDN
1221	1325	TAD M2
1222	3326	DCA ADDCTR
1223	1322	TAD M3720
1224	1315	TAD BUF
1225	5230	JMP LP2
1226	1315	LP, TAD BUF
1227	1324	LP1, TAD ADDN
1230	7500	LP2, SMA
1231	5262	JMP TPDIG
1232	2326	ISZ ADDCTR

1233	5227	JMP LP1
1234	1324	TAD ADDN
1235	3315	DCA BUF
1236	1321	TAD SW1
1237	7640	SZA CLA
1240	5244	JMP .+4
1241	1327	TAD K260
1242	4307	JMS TYPE1
1243	5246	JMP RESET
1244	1317	TAD SPACE
1245	4307	JMS TYPE1
1246	1324	RESET, TAD ADDN
1247	1330	TAD M1750
1250	7650	SNA CLA
1251	5271	JMP HUND
1252	1324	TAD ADDN
1253	1331	TAD M144
1254	7650	SNA CLA
1255	5301	JMP TENS
1256	1327	TAD K260
1257	1315	TAD BUF
1260	4307	JMS TYPE1
1261	5600	JMP I IDECI
1262	3315	TPDIG, DCA BUF
1263	3321	DCA SW1
1264	1326	TAD ADDCTR
1265	7041	CIA
1266	1327	TAD K260
1267	4307	JMS TYPE1
1270	5246	JMP RESET
1271	1330	HUND, TAD M1750
1272	1315	TAD BUF
1273	3315	DCA BUF
1274	1332	TAD K144
1275	3324	DCA ADDN
1276	1333	A, TAD M9
1277	3326	DCA ADDCTR
1300	5226	JMP LP
1301	1331	TENS, TAD M144
1302	1315	TAD BUF
1303	3315	DCA BUF
1304	1334	TAD K12
1305	3324	DCA ADDN
1306	5276	JMP A
1307	0000	TYPE1, 0
1310	6041	TSF
1311	5310	JMP .-1
1312	6046	TLS
1313	7200	CLA
1314	5707	JMP I TYPE1
1315	0000	BUF, 0
1316	0255	MINUS, 0255
1317	0240	SPACE, 0240
1320	7777	M1, 7777
1321	0000	SW1, 0
1322	4060	M3720, 4060
1323	1750	K1750, 1750

1324	0000	ADDN, 0
1325	7776	M2, 7776
1326	0000	ADDCTR, 0
1327	0260	K260, 260
1330	6030	M1750, 6030
1331	7634	M144, 7634
1332	0144	K144, 0144
1333	7767	M9, 7767
1334	0012	K12, 12

/MORE TEXT

*1400

1400	3737	TITLE, 3737;
1401	3752	3752;
1402	5203	5203;
1403	0102	0102;
1404	2211	2211
1405	1414	1414;
1406	1740	1740;
1407	2405	2405;
1410	2324	2324;
1411	4007	4007
1412	2201	2201;
1413	0405	0405;
1414	2252	2252;
1415	5237	5237;
1416	0000	0;
1417	0000	0;
1420	0000	0
1421	3737	ENDTST, 3737;
1422	5252	5252;
1423	5252	5252;
1424	3724	3724
1425	0523	0523;
1426	2440	2440;
1427	0722	0722;
1430	0104	0104;
1431	1116	1116
1432	0740	0740;
1433	0611	0611;
1434	1611	1611;
1435	2310	2310;
1436	0504	0504
1437	3700	3700;
1440	0000	0;
1441	0000	0;
1442	0000	0
1443	3755	KEYWRG, 3755;
1444	5555	5555;
1445	5537	5537;
1446	1305	1305
1447	3140	3140;
1450	0301	0301;
1451	2204	2204;
1452	2340	2340;
1453	1116	1116

1454	4027	4027;
1455	2217	2217;
1456	1607	1607;
1457	4017	4017;
1460	2204	2204;
1461	0522	0522
1462	3700	3700;
1463	0000	0;
1464	0000	0;
1465	0000	0
1466	3755	STUWRG, 3755;
1467	5555	5555;
1470	5537	5537;
1471	2324	2324;
1472	2504	2504
1473	0516	0516;
1474	2440	2440;
1475	0301	0301;
1476	2204	2204;
1477	2340	2340;
1500	1116	1116
1501	4027	4027;
1502	2217	2217;
1503	1607	1607;
1504	4017	4017;
1505	2204	2204;
1506	0522	0522
1507	3700	3700;
1510	0000	0;
1511	0000	0;
1512	0000	0
1513	3755	CDRDY, 3755;
1514	5555	5555;
1515	5537	5537;
1516	0301	0301;
1517	2204	2204
1520	4022	4022;
1521	0501	0501;
1522	0405	0405;
1523	2240	2240;
1524	2205	2205;
1525	0104	0104
1526	3177	3177;
1527	3700	3700;
1530	0000	0;
1531	0000	0;
1532	0000	0
1533	3755	RBASIC, 3755;
1534	5555	5555;
1535	5537	5537;
1536	2205	2205;
1537	2425	2425
1540	2216	2216;
1541	4024	4024;
1542	1740	1740;
1543	0201	0201;

1544	2311	2311;
1545	0377	0377
1546	3737	3737;
1547	0000	0;
1550	0000	0
1551	3755	STNUMW, 3755;
1552	5555	5555;
1553	5537	5537;
1554	2324	2324;
1555	2556	2556
1556	0516	0516;
1557	2440	2440;
1560	1625	1625;
1561	1502	1502;
1562	0522	0522;
1563	2340	2340
1564	0417	0417;
1565	4016	4016;
1566	1724	1724;
1567	4015	4015;
1570	0124	0124;
1571	0310	0310
1572	3700	3700;
1573	0000	0;
1574	0000	0;
1575	0000	0

/STUDZNT # ZHECK

*1603

1603	0000	SCHEK, 0
1604	3051	DCA STUDN
1605	1051	TAD STUDN
1606	7440	SZA
1607	5214	JMP DUPSNO
1610	4455	JMS I TYPX
1611	1626	ZSTUNO
1612	4146	JMS KEY
1613	5603	JMP I SCHEK
1614	1062	DUPSNO, TAD PTSTNO
1615	3225	DCA TLOC
1616	1625	TAD I TLOC
1617	7530	SPA SZL
1620	5603	JMP I SCHEK
1621	4455	JMS I TYPX
1622	1640	DUPSTN
1623	4146	JMS KEY
1624	5603	JMP I SCHEK
1625	0000	TLOC, 0
1626	3752	ZSTUNO, 3752;
1627	5252	5252;
1630	5237	5237;
1631	1617	1617;
1632	4023	4023
1633	2425	2425;
1634	0405	0405;
1635	1624	1624;


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1636 4043 4043;
1637 3700 3700
1640 3752 DUPSTN, 3752;
1641 5252 5252;
1642 5237 5237;
1643 0425 0425
1644 2040 2040;
1645 2324 2324;
1646 2504 2504;
1647 0516 0516;
1650 2440 2440;
1651 4337 4337;
1652 0000 0000

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/READS A CARD INTO THE BUFFER

RCSD=6671

RCRB=6634

RCSE=6672

RCSF=6631

RCRA=6632

*1670

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1670 0000 CARD, 0
1671 7300 CLA CLL
1672 1066 TAD BUFFST
1673 3016 DCA BUFFPT
1674 1357 TAD N37
1675 3356 DCA ENUF
1676 6634 RCRB
1677 6672 RCSE
1700 5347 JMP NOTRDY
1701 7000 RD, NOP
1702 7200 CLA
1703 1355 TAD CONST
1704 3353 DCA TEMP0
1705 3354 DCA TEMP8
1706 6631 TEST, RCSF
1707 5340 JMP EOC
1710 6632 RCRA
1711 3416 DCA I BUFFPT
1712 7000 NOP
1713 5306 JMP TEST
1714 7300 DOPART, CLA CLL
1715 7221 CLA CML IAC
1716 7004 RAL
1717 1066 TAD BUFFST
1720 3027 DCA ADDRES
1721 1427 TAD I ADDRES
1722 3024 DCA PART
1723 1065 TAD CRDADD
1724 1057 TAD NUMN6
1725 3027 DCA ADDRES
1726 1427 TAD I ADDRES
1727 3032 DCA TEMP2
1730 2027 ISZ ADDRES
1731 1427 TAD I ADDRES
1732 3031 DCA TEMP1
1733 1477 TAD I FOUR

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1734	3100	DCA TEMP3
1735	4103	JMS NUMPK
1736	3102	DCA TMPSTN
1737	5670	JMP I CARD
1740	6671	EOC, RCSD
1741	5343	JMP STALL
1742	5314	JMP DOPART
1743	2354	STALL, ISZ TEMP8
1744	5306	JMP TEST
1745	2353	ISZ TEMP0
1746	5306	JMP TEST
1747	4455	NOTRDY, JMS I TYPX
1750	1513	CDRDY
1751	4146	JMS KEY
1752	5271	JMP CARD+1
1753	0000	TEMP0, 0
1754	0000	TEMP8, 0
1755	7741	CONST, 7741
1756	0000	ENUF, 0
1757	7733	N37, 0-45
		/6EACH PRINTOUT
		*2000
2000	0000	TEACH, 0
2001	7200	CLA
2002	6046	TLS
2003	4455	JMS I TYPX
2004	1051	TTNUM
2005	1030	TAD TSTNO
2006	4456	JMS I DECI
2007	4455	JMS I TYPX
2010	1057	TCNUM
2011	1033	TAD CLASN
2012	4456	JMS I DECI
2013	4455	JMS I TYPX
2014	1106	TLIST
2015	7201	CLA IAC
2016	3051	DCA STUDN
2017	1101	TAD NUM999
2020	3047	DCA J
2021	1062	N603, TAD PTSTNO
2022	1051	TAD STUDN
2023	3053	DCA ADDRE1
2024	1453	TAD I ADDRE1
2025	7710	SPA CLA
2026	5237	JMP INCR
2027	1051	TAD STUDN
2030	4456	JMS I DECI
2031	1453	TAD I ADDRE1
2032	4456	JMS I DECI
2033	4434	JMS I PERI
2034	4456	JMS I DECI
2035	4455	JMS I TYPX
2036	0740	TPER
2037	2051	INCR, ISZ STUDN
2040	2047	ISZ J
2041	5221	JMP N603
2042	5600	JMP I TEACH
2043	0000	ITPRT, 0

2044	7200	CLA
2045	4455	JMS I TYPX
2046	1120	TQUES
2047	7201	CLA IAC
2050	3054	DCA QNO
2051	1026	TAD TITEMS
2052	7041	CIA
2053	3047	DCA J
2054	1061	N604, TAD QBUFFA
2055	1054	TAD QNO
2056	3027	DCA ADDRES
2057	1046	TAD ANSADD
2060	1054	TAD QNO
2061	3277	DCA A1
2062	1054	TAD QNO
2063	4456	JMS I DECI
2064	1427	TAD I ADDRES
2065	4456	JMS I DECI
2066	7040	CMA
2067	1677	TAD I A1
2070	4456	JMS I DECI
2071	4455	JMS I TYPX
2072	1136	TCRLF
2073	2054	ISZ QNO
2074	2047	ISZ J
2075	5254	JMP N604
2076	5643	JMP I ITPRT
2077	0000	A1, 0

/SETU3 FOR TYPE OF PRINTOUT

*2200

2200	0000	SETUP, 0
2201	7200	CLA
2202	1263	TAD WD1
2203	3730	DCA I I1
2204	1263	TAD WD1
2205	3731	DCA I I2
2206	1264	TAD WD2
2207	3732	DCA I I3
2210	4455	GOOF, JMS I TYPX
2211	2273	WRONG
2212	4251	JMS GTANS
2213	5221	JMP RIGHT
2214	1265	TAD WD3
2215	3733	DCA I I4
2216	1266	TAD WD4
2217	3734	DCA I I5
2220	5600	JMP I SETUP
2221	4455	RIGHT, JMS I TYPX
2222	2304	RITE
2223	4251	JMS GTANS
2224	5234	JMP NO PROT
2225	1266	TAD WD4
2226	3733	DCA I I4
2227	1267	TAD WD5
2230	3734	DCA I I5

2231	1270	TAD WD6
2232	3732	DCA I I3
2233	5600	JMP I SETUP
2234	4455	NOPROT, JMS I TYPX
2235	2315	NOPRNT
2236	4251	JMS GTANS
2237	5210	JMP GOOF
2240	1266	TAD WD4
2241	3733	DCA I I4
2242	1266	TAD WD4
2243	3734	DCA I I5
2244	1271	TAD WD7
2245	3730	DCA I I1
2246	1272	TAD WD8
2247	3731	DCA I I2
2250	5600	JMP I SETUP
2251	0000	GTANS, 0
2252	6031	KSF
2253	5252	JMP .-1
2254	6036	KRB
2255	6046	TLS
2256	1262	TAD YES
2257	7450	SNA
2260	2251	ISZ GTANS
2261	5651	JMP I GTANS
2262	7447	YES, 0-331
2263	4455	WD1, JMS I TYPX
2264	1116	WD2, 1116
2265	5304	WD3, 5304
2266	5272	WD4, 5272
2267	7000	WD5, NOP
2270	4040	WD6, 4040
2271	5217	WD7, 5217
2272	5600	WD8, 5600
2273	3737	WRONG, 3737;
2274	2431	2431;
2275	2005	2005;
2276	4027	4027;
2277	2217	2217
2300	1607	1607;
2301	4001	4001;
2302	1623	1623;
2303	7700	7700
2304	3737	RITE, 3737;
2305	2431	2431;
2306	2005	2005;
2307	4022	4022;
2310	1107	1107
2311	1024	1024;
2312	4001	4001;
2313	1623	1623;
2314	7700	7700
2315	3737	NOPRNT, 3737;
2316	1617	1617;
2317	4023	4023;
2320	2425	2425;

2321	0405	0405
2322	1624	1624;
2323	4024	4024;
2324	3120	3120;
2325	0517	0517;
2326	2524	2524;
2327	7700	7700
2330	0601	I 1, CHKANS+1
2331	0620	I 2, CHKANS+20
2332	1063	I 3, TINCT+1
2333	0701	I 4, L103
2334	0703	I 5, L104
2335	0617	I 6, CHKANS+17
		*2400
2400	0000	DIVIDE, 0
2401	7100	CLL
2402	7510	SPA
2403	7060	CMA CML
2404	3320	DCA HDIVND
2405	7420	SNL
2406	7040	CMA
2407	3323	DCA SDVND
2410	1600	TAD I DIVIDE
2411	7430	SZL
2412	7141	CMA CLL IAC
2413	3321	DCA LDIVND
2414	7430	SZL
2415	2320	ISZ HDIVND
2416	2200	ISZ DIVIDE
2417	1600	TAD I DIVIDE
2420	7100	CLL
2421	7500	SMA
2422	7061	CMA CML IAC
2423	3322	DCA DIVSOR
2424	7420	SNL
2425	7040	CMA
2426	1323	TAD SDVND
2427	3324	DCA SNSWER
2430	2200	ISZ DIVIDE
2431	1322	TAD DIVSOR
2432	0327	AND MASKX
2433	7650	SNA CLA
2434	5310	JMP DZERO
2435	1320	TAD HDIVND
2436	7640	SZA CLA
2437	5244	JMP CONT
2440	1322	TAD DIVSOR
2441	1321	TAD LDIVND
2442	7710	SPA CLA
2443	5313	JMP DFRAC
2444	7100	CONT, CLL
2445	1322	TAD DIVSOR
2446	1320	TAD HDIVND
2447	7630	SZL CLA
2450	5600	JMP I DIVIDE
2451	1320	TAD HDIVND

2452	1322	TAD DIVSOR
2453	7740	SMA SZA CLA
2454	5311	JMP DOVER
2455	1326	TAD M13
2456	3325	DCA DIVCNT
2457	5270	JMP DV2

/
/DIVIDE LOOP
/

2460	1320	DV3,	TAD HDIVND
2461	7004		RAL
2462	3320		DCA HDIVND
2463	1320		TAD HDIVND
2464	1322		TAD DIVSOR
2465	7430		SZL
2466	3320		DCA HDIVND
2467	7200		CLA
2470	1321	DV2,	TAD LDIVND
2471	7004		RAL
2472	3321		DCA LDIVND
2473	2325		ISZ DIVCNT
2474	5260		JMP DV3
2475	1320		TAD HDIVND
2476	2323		ISZ SDVND
2477	7041		CMA IAC
2500	3320		DCA HDIVND
2501	1321		TAD LDIVND
2502	7510		SPA
2503	5316		JMP QOVER
2504	2324		ISZ SNSWER
2505	7041		CMA IAC
2506	7100		CLL
2507	5600		JMP I DIVIDE
2510	7240	DZERO,	CLA CMA
2511	7120	DOVER,	STL
2512	5600		JMP I DIVIDE
2513	7140	DFRAC,	CLL CMA
2514	7004		RAL
2515	5311		JMP DOVER
2516	7200	QOVER,	CLA
2517	5311		JMP DOVER
2520	0000	HDIVND,	0
2521	0000	LDIVND,	0
2522	0000	DIVSOR,	0
2523	0000	SDVND,	0
2524	0000	SNSWER,	0
2525	0000	DIVCNT,	0
2526	7763	M13,	-15
2527	3777	MASKX,	3777
2530	0000	PER,	0
2531	7300	CLA CLL	
2532	1062	TAD PTSTNO	
2533	1051	TAD STUDN	
2534	3053	DCA ADDRE1	
2535	1453	TAD I ADDRE1	
2536	7004	RAL	
2537	3032	DCA TEMP2	

2540	1032	TAD TEMP2
2541	7006	RTL
2542	1032	TAD TEMP2
2543	3347	DCA N195+1
2544	1026	TAD TITEMS
2545	3350	DCA N195+2
2546	4200	N195, JMS DIVIDE
2547	0000	0
2550	0000	0
2551	7430	SZL
2552	7200	CLA
2553	3032	DCA TEMP2
2554	1320	TAD HDIVND
2555	7004	RAL
2556	3031	DCA TEMP1
2557	1031	TAD TEMP1
2560	7006	RTL
2561	1031	TAD TEMP1
2562	3366	DCA N196+1
2563	1026	TAD TITEMS
2564	3367	DCA N196+2
2565	4200	N196, JMS DIVIDE
2566	0000	0
2567	0000	0
2570	7430	SZL
2571	7200	CLA
2572	3031	DCA TEMP1
2573	4103	JMS NUMPK
2574	5730	JMP I PER

A	1276
ADDCTR	1326
ADDN	1324
ADDRES	0027
ADDRE1	0053
ANS	0477
ANSADD	0046
ANSBUF	0020
ANSKY	0036
AUTO10	0010
AUTO11	0011
AUTO14	0014
AUTO15	0015
A1	2077
A7600	0370
A7750	0371
A7751	0372
A7770	0373
BACK	0173
BACK2	0174
BSW	7002
BUF	1315
BUFFPT	0016
BUFFST	0066
BUFST	0035
B1	0374
B2	0375
CARD	1670
CDRDY	1513
CHKANS	0600
CHK1	0213
CHK2	0300
CHK3	0457
CKANSW	0040
CLASN	0033
QNTRLB	0171
QNTRLR	0172
COLCNT	0730
CONST	1755
CONT	2444
CORRCT	0643
CRDADD	0065
CRDBUF	0022
CRDRD	0021
DECI	0056
DFRAC	2513
DIVCNT	2525
DIVIDE	2400
DIVSOR	2522
DOPART	1714
DOVER	2511
DUPSNO	1614
DUPSTN	1640
DV2	2470
DV3	2460

DZERO	2510
ENDSTS	0467
ENDTS	0565
ENDTST	1421
ENUF	1756
EOC	1740
FOUR	0077
GOOF	2210
GTANS	2251
HDIVND	2520
HUND	1271
IDECI	1200
INCR	2037
INMPAC	0075
ITOMPS	0042
ITOMPT	0064
ITPRT	2043
IX	0073
I1	2330
I2	2331
I3	2332
I4	2333
I5	2334
I6	2335
J	0047
JMPUP	0263
K	0072
KEY	0146
KEYWRG	1443
K12	1334
K144	1332
K1750	1323
K260	1327
LDIVND	2521
LP	1226
LP1	1227
LP2	1230
L101	0676
L102	0702
L103	0701
L104	0703
MASK	0063
MASKX	2527
MINUS	1316
M1	1320
M13	2526
M144	1331
M1750	1330
M2	1325
M3720	1322
M9	1333
NO	0067
NO PRNT	2315
NO PROT	2234
NORITE	0043
NOTRDY	1747

NUMN6	0057
NUMPK	0103
NUM100	0060
NUM999	0101
N14	0731
N195	2546
N196	2565
N201	0205
N202	0223
N203	0254
N204	0270
N205	0306
N206	0271
N211	0517
N212	0515
N213	0506
N214	0541
N215	0537
N306	0662
N307	0704
N308	0672
N37	1757
N401	0420
N402	0416
N403	0407
N404	0441
N405	0437
N603	2021
N604	2054
OUT	0342
P	0726
PART	0024
PARTX	0023
PER	2530
PERCNT	0716
PERI	0034
PLUS	1211
PROBLM	0044
PSTNO	0052
PTSTNO	0062
QBUFFA	0061
QBUFFR	0050
QNO	0054
COVER	2516
RBASIC	1533
RCRA	6632
RCRB	6634
RCSD	6671
RCSE	6672
RCSF	6631
RD	1701
REPLY	0170
RESET	1246
RIGHT	2221
RITE	2304
RTCARD	0547
SCHEK	1603

SCHEKI	0377
SDVND	2523
SETUP	2200
SETUPI	0076
ANSWER	2524
SPACE	1317
SRTCD	0442
STABUF	0025
STADDB	0045
STALL	1743
STANS	0037
START	0200
START1	1142
STNUMW	1551
STU	0400
STUDN	0051
STUWRG	1466
SW1	1321
TCNUM	1057
TCRLF	1136
TEACH	2000
TEMPS	0074
TEMP0	1753
TEMP1	0031
TEMP2	0032
TEMP3	0100
TEMP8	1754
TENS	1301
TEST	1706
TINCT	1062
TITEMS	0026
TITLE	1400
TKM125	1046
TKM37	1044
TK100	1047
TK215	1045
TK237	1050
TK77	1035
TLIST	1106
TLOC	1625
TLX	1036
TMPN5	0071
TMPN9	0070
TMPSTN	0102
TOUTOF	1100
TPDIG	1262
TPER	0740
TPERCT	1071
TPRTOT	0041
TQUES	1120
TSPACE	0732
TSTNO	0030
TSTNUM	1137
TTNUM	1051
TYPE	1000
TYPE1	1307
TYPNT	1015

TY PX	0055
TY PX 1	1006
TY PY	1016
TY PY 1	1030
WD 1	2263
WD 2	2264
WD 3	2265
WD 4	2266
WD 5	2267
WD 6	2270
WD 7	2271
WD 8	2272
WRONG	2273
X7700	1156
YASCII	0376
YES	2262
ZSTUNO	1626

